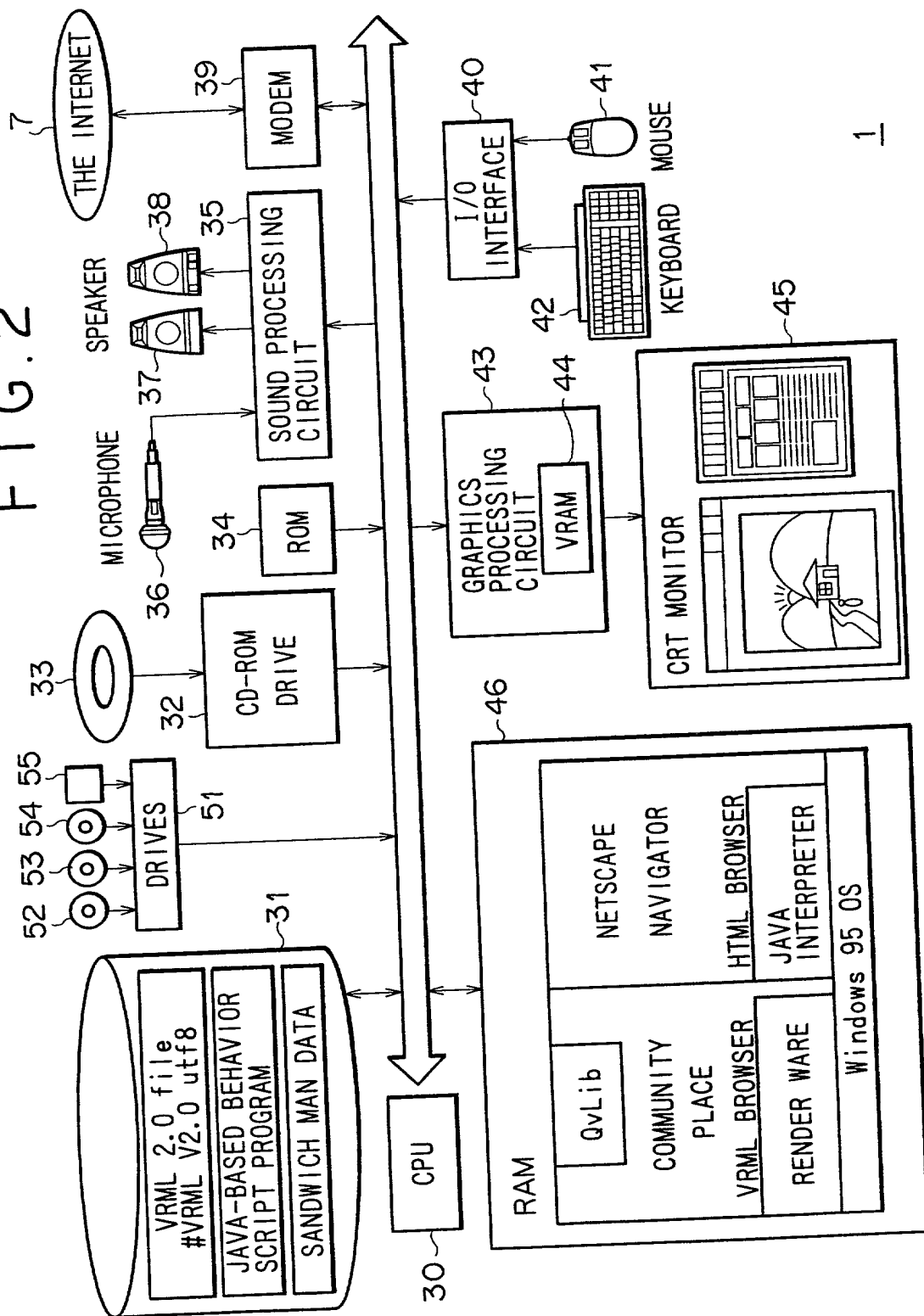


**FIG. 1**

The diagram illustrates a network system architecture. At the top, a **PUBLIC SWITCHED TELEPHONE NETWORK** (17) connects to a **COMMUNICATION SERVER** (16) and two service providers: a **PHS SERVICE PROVIDER** (20) and a **PAGER SERVICE PROVIDER** (21). The PHS provider is linked to a mobile phone (23), and the pager provider is linked to a pager (24). The communication server (16) also connects to a **ROUTER** (8). The router (8) is the central hub for a **LAN** (9), which includes a **WWW SERVER** (10), **WLS** (11), **SHARED SERVER** (12), **A0 SERVER** (13), **CHARGE SERVER** (25), and **MAIL SERVER** (15). Each server is associated with a database (10a, 10b, 11a, 12a, 13a, 14a, 15a). The router (8) also connects to **THE INTERNET** (7) via an **IP** node (4). The internet (7) includes other **IP** nodes (5, 6) and connects to a desktop computer (2) and a laptop (3). A dashed box (1) highlights a user's local environment, showing a **VRML BROWSER** with a 3D scene, a **WWW BROWSER (NETSCAPE)** with an **HTML FILE**, and various peripherals: **SPEAKER**, **MICROPHONE**, **KEYBOARD**, and **MOUSE**. Data flows are indicated by arrows, including **NCAPI** between the browsers and file transfers for **VRML FILE** and **HTML FILE**.

FIG. 2



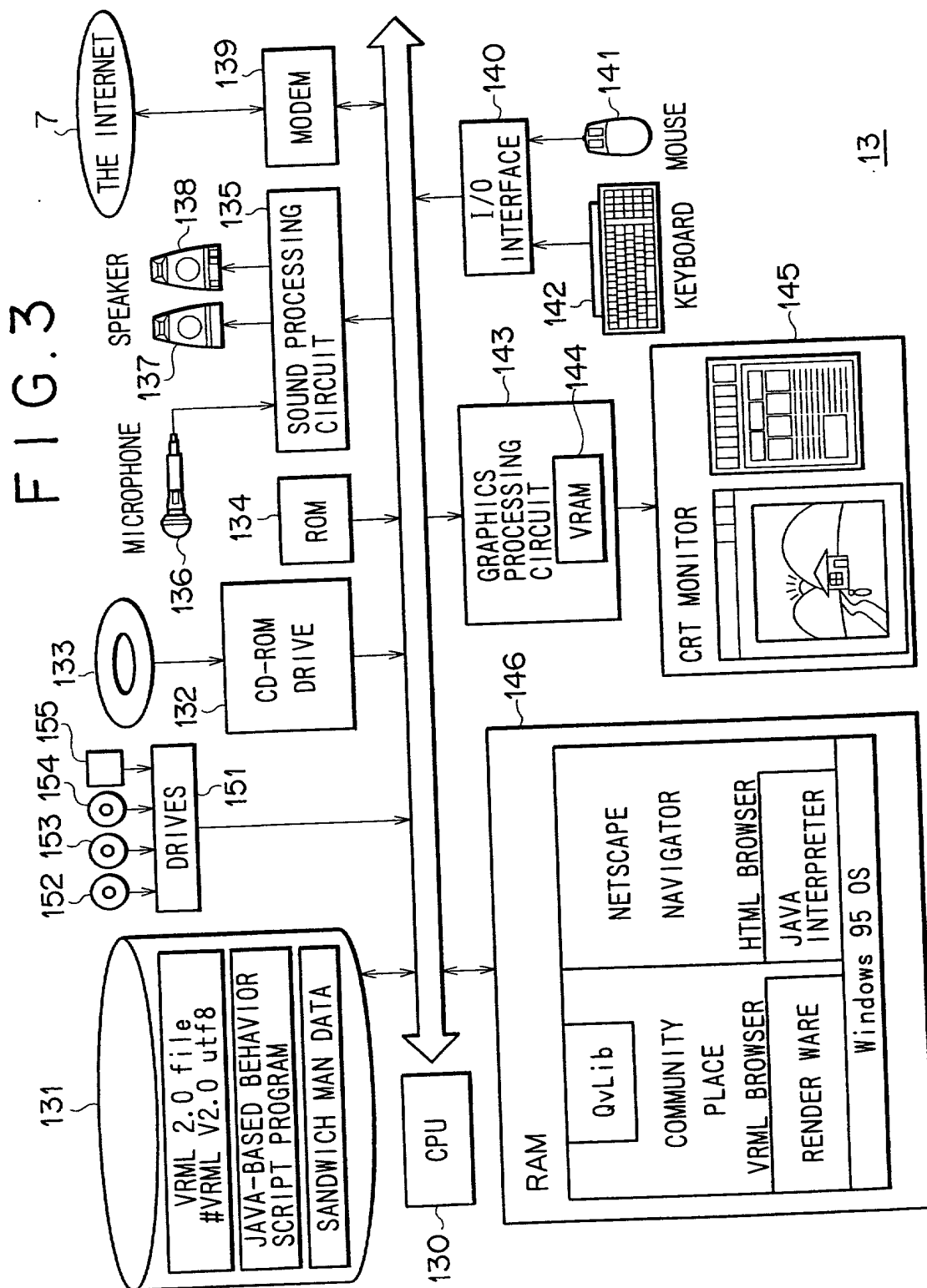


FIG. 4

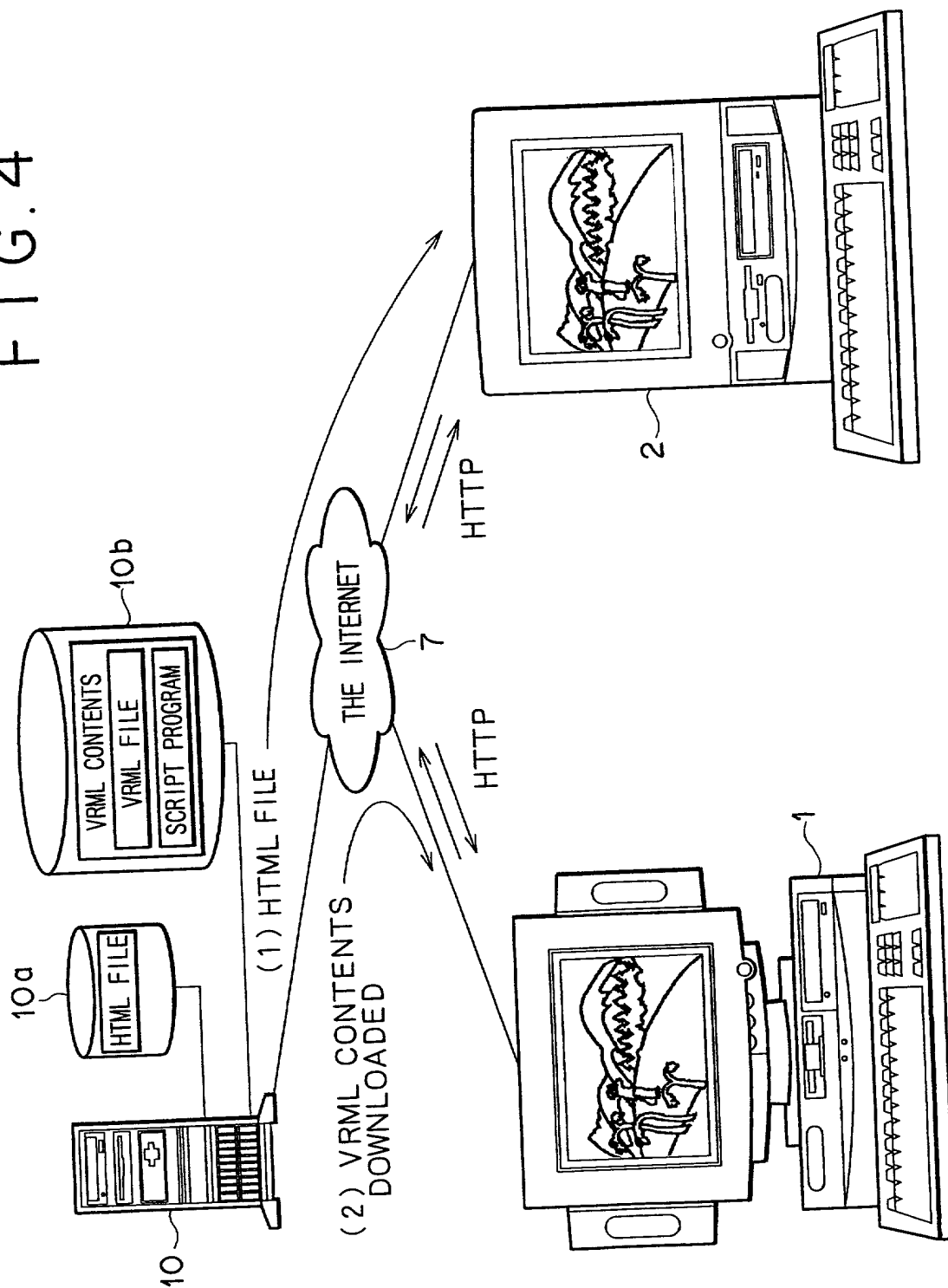


FIG. 5

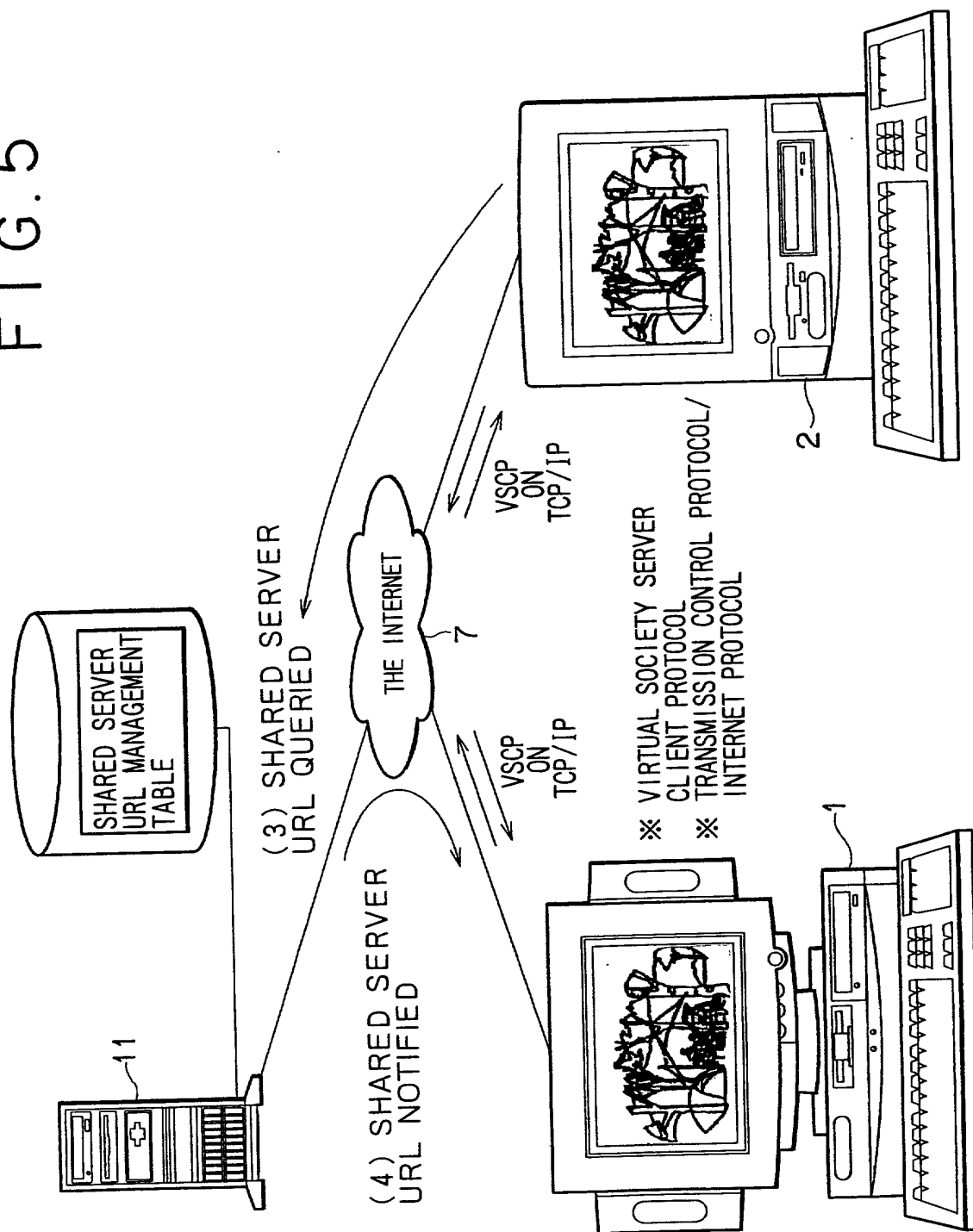


FIG. 6

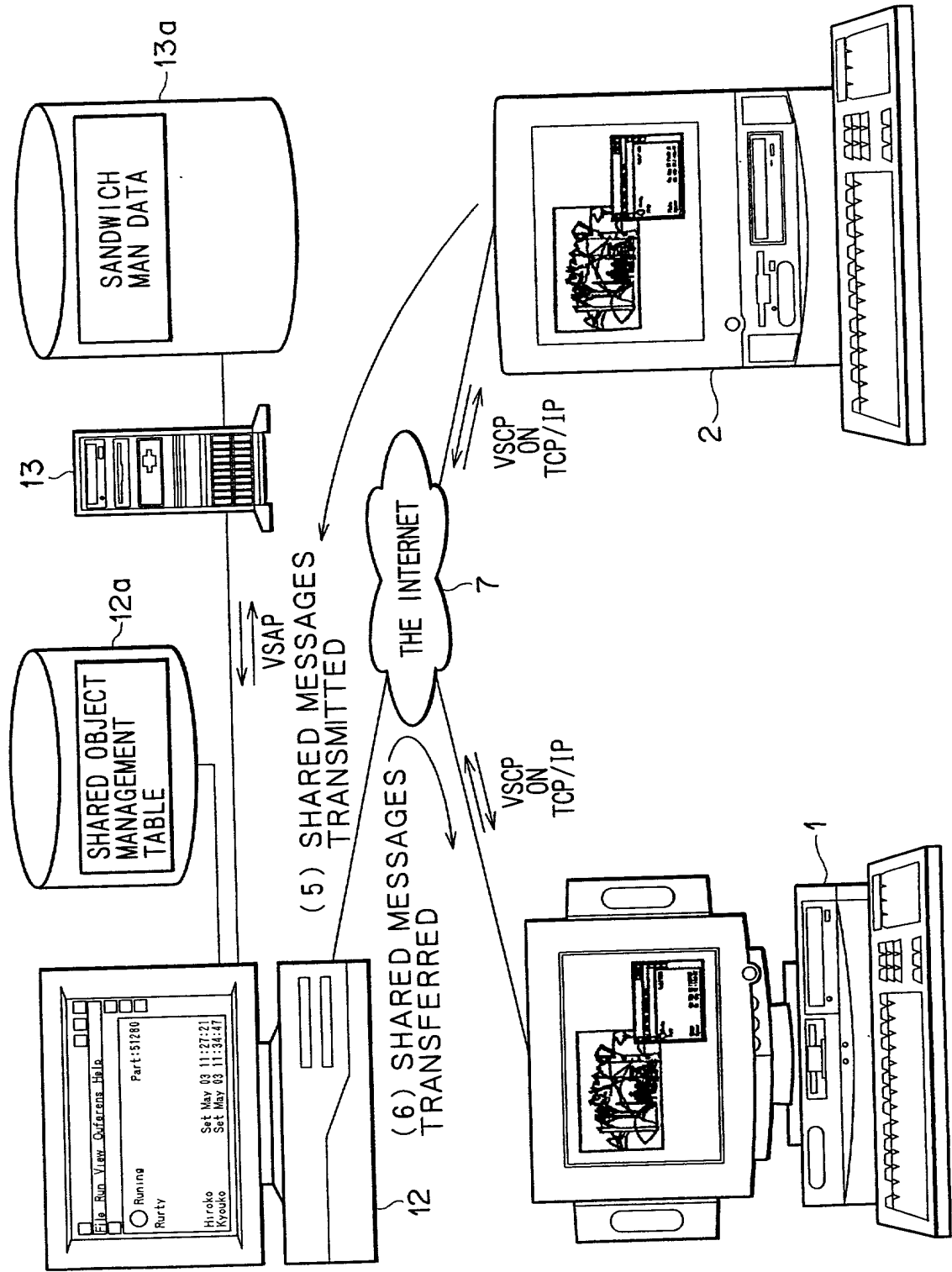


FIG. 7

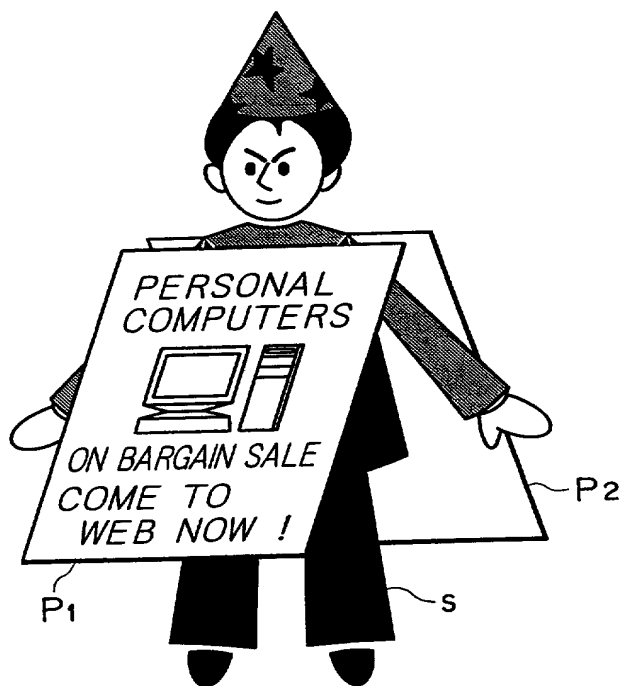


FIG. 8

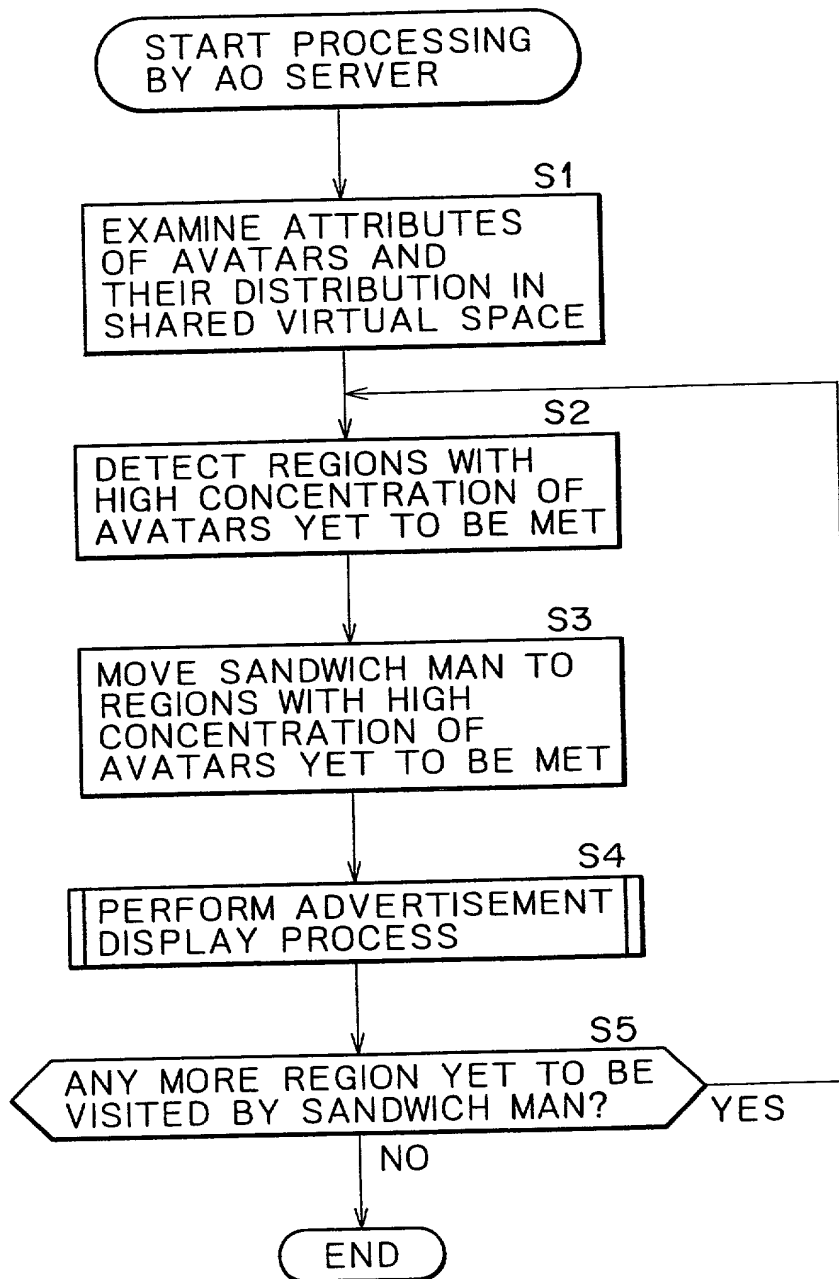


FIG. 8



FIG. 9

AVATARS	SANDWICH MAN "s"			
	ATTRIBUTES OF AVATARS (NUMBER OF TIMES EACH AD IS VIEWED BY EACH AVATAR)			ADVERTISMENT A <sub>3</sub>
	CURRENT COORDINATES	ADVERTISMENT A <sub>1</sub>	ADVERTISMENT A <sub>2</sub>	
a	Xa Ya Za	1	0	0
b	Xb Yb Zb	1	2	0
c	Xc Yc Zc	1	0	0
d	Xd Yd Zd	2	3	0
e	Xe Ye Ze	1	0	0
f	Xf Yf Zf	1	0	0
g	Xg Yg Zg	0	1	0
h	Xh Yh Zh	1	0	0
i	Xi Yi Zi	0	0	0

FIG. 10

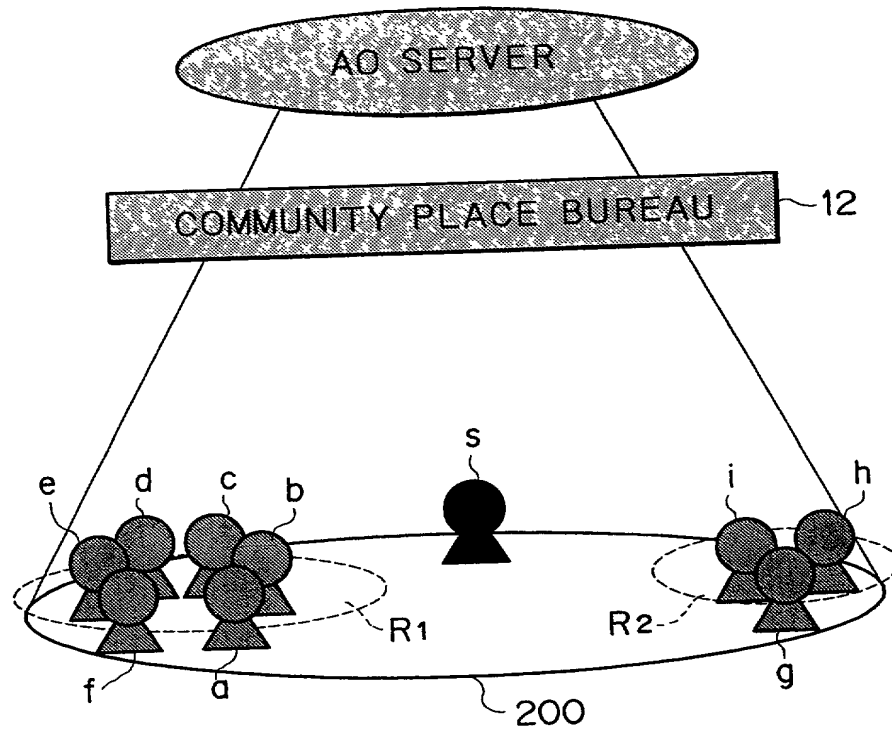


FIG. 11

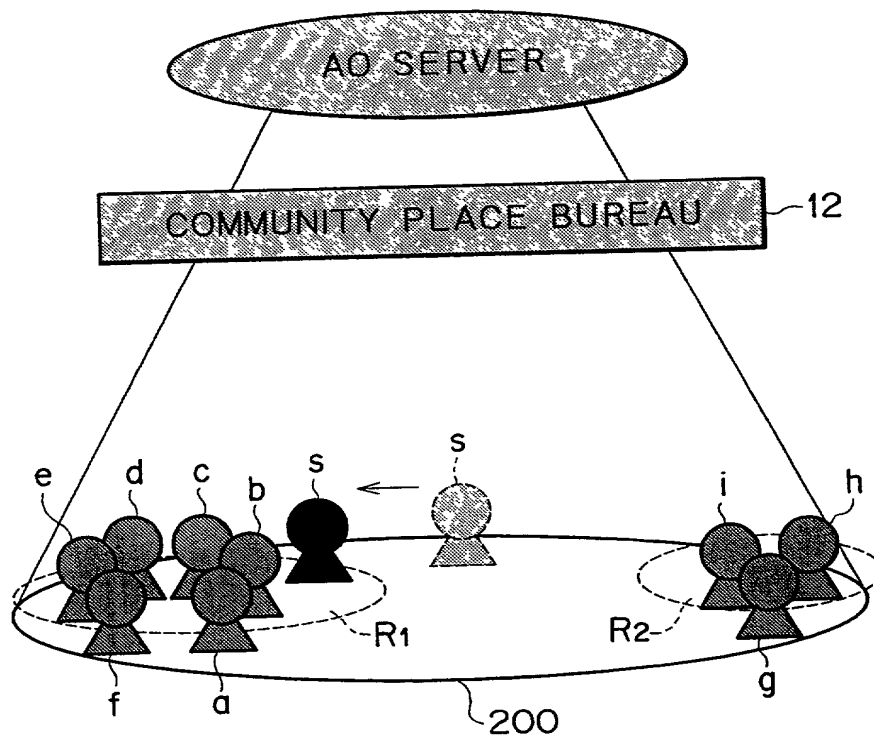


FIG. 12

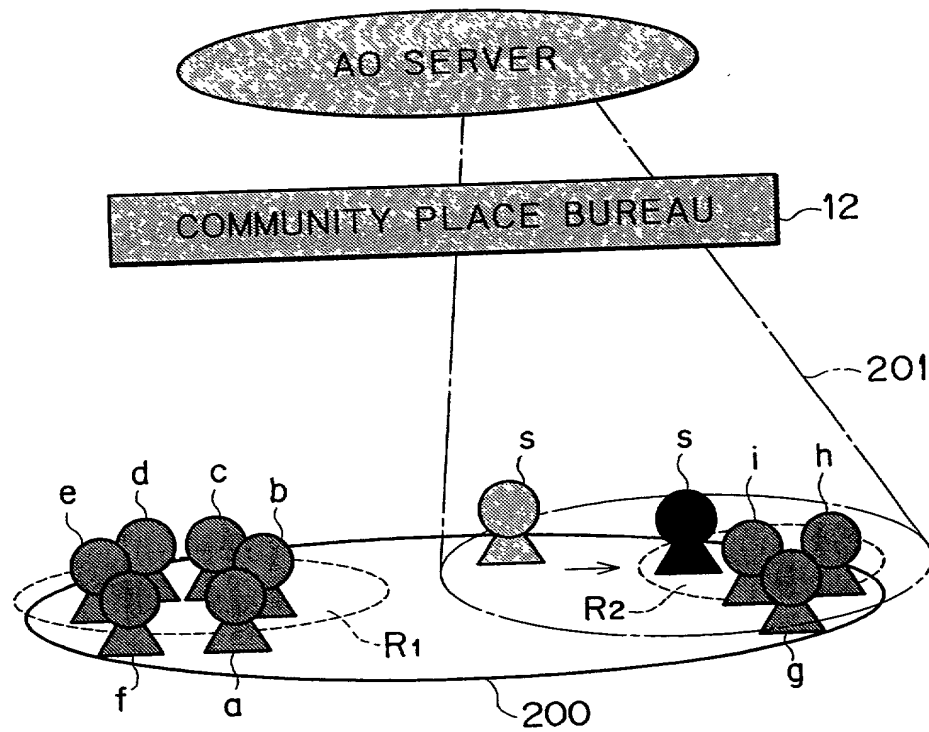


FIG. 13

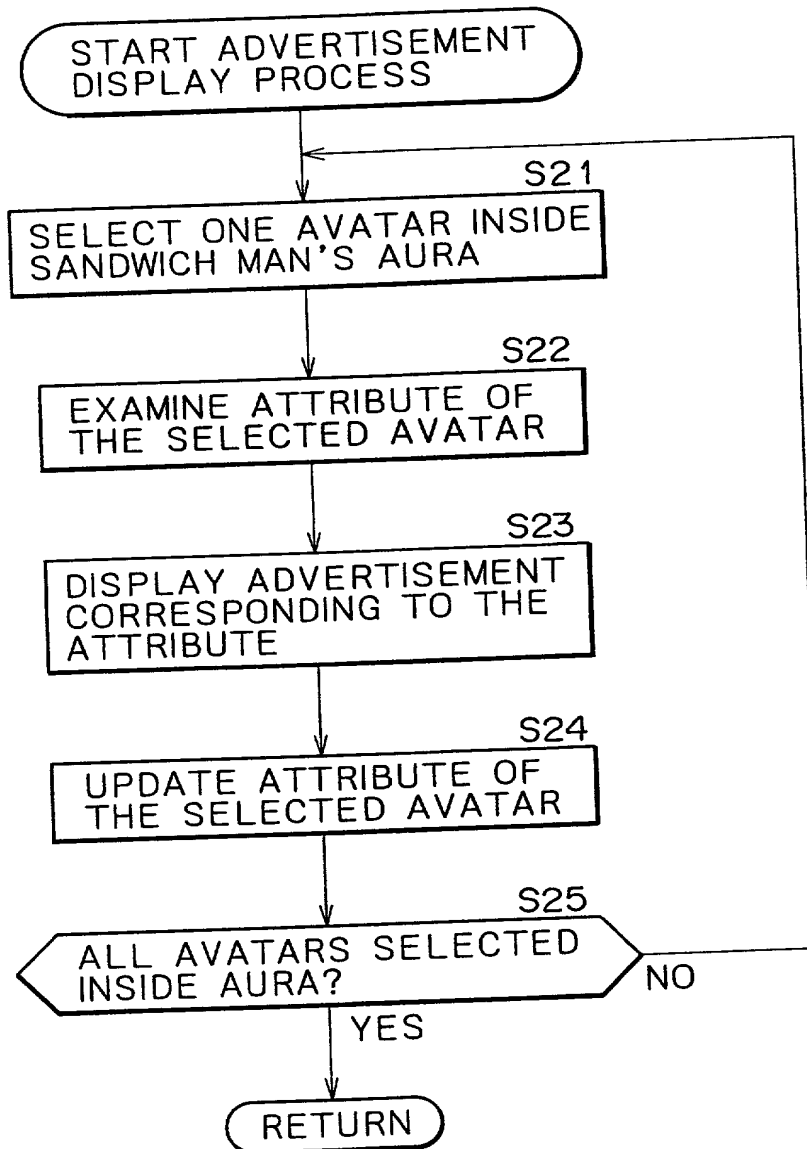


FIG. 13

FIG. 14

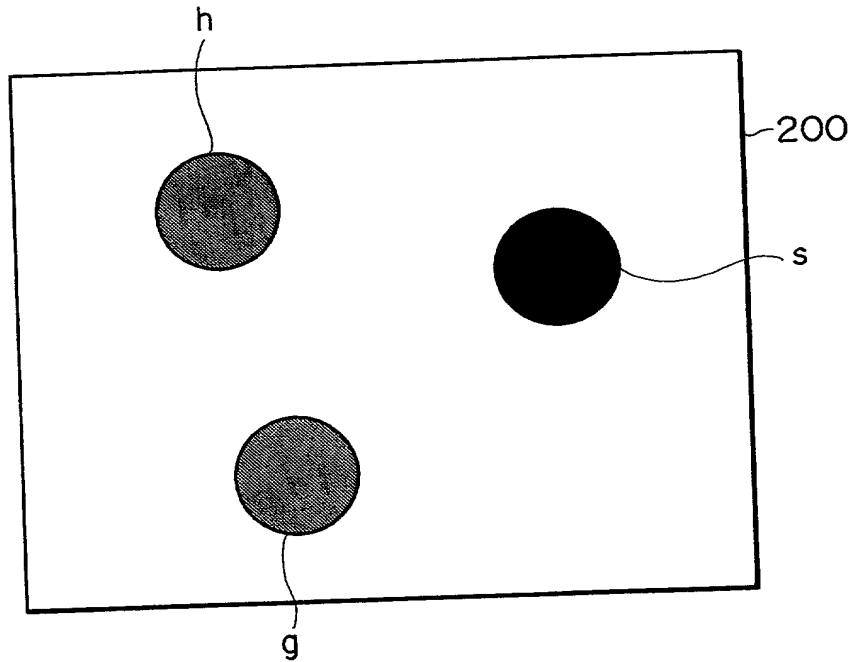
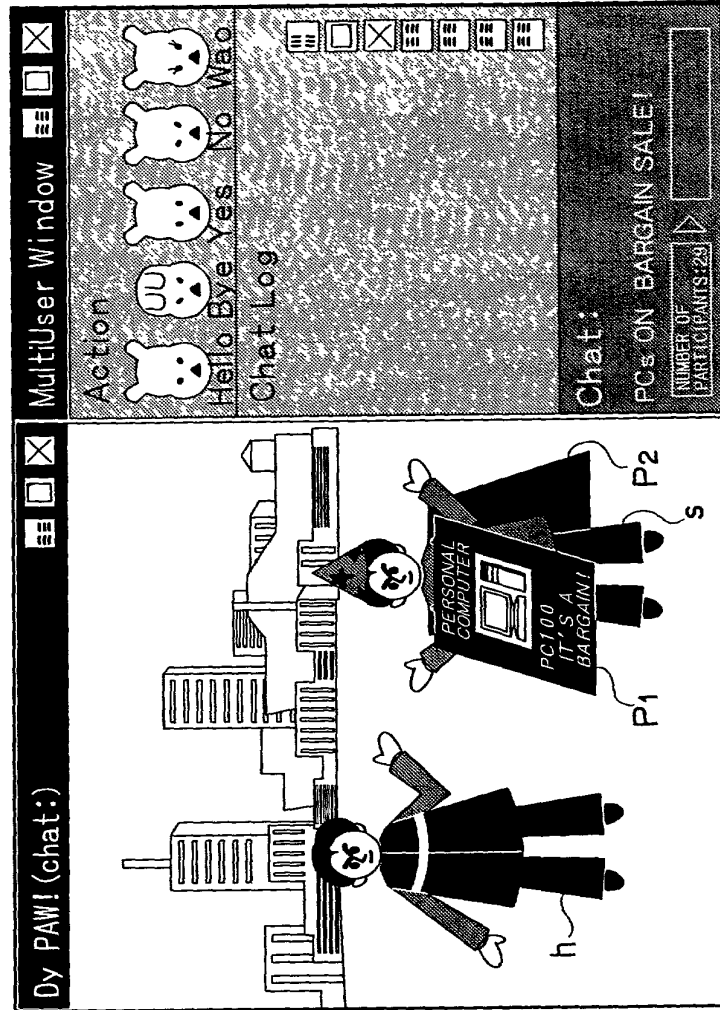
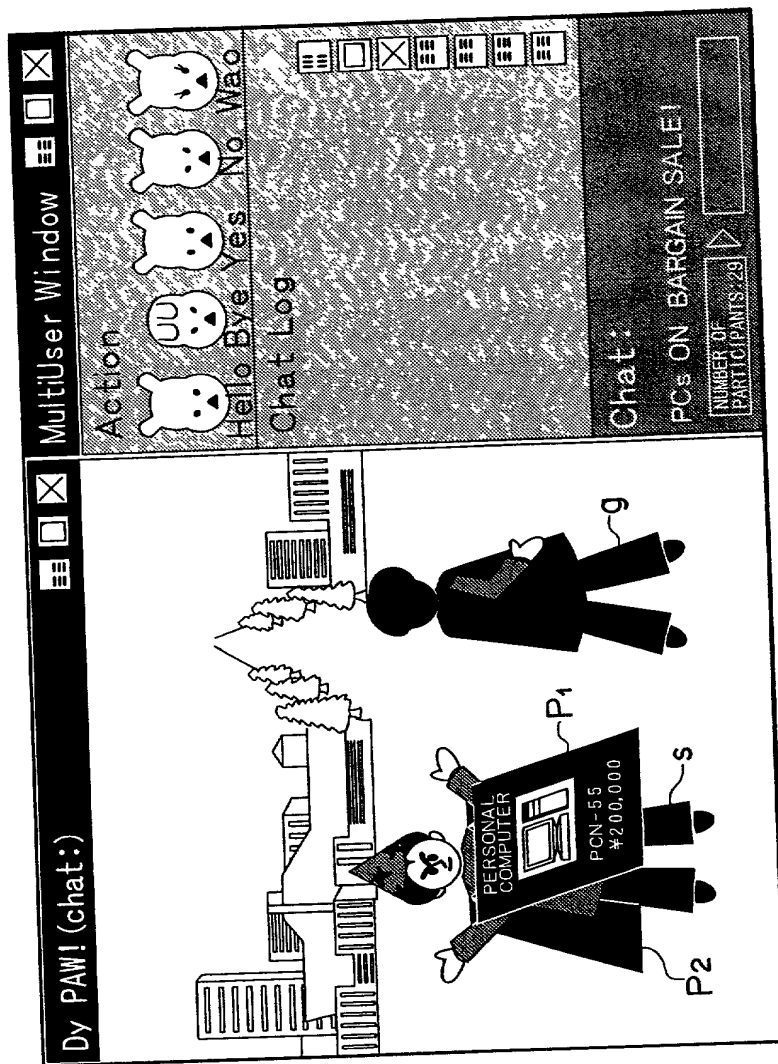


FIG. 15



USER G'S BROWSER SCREEN

FIG. 16



USER H'S BROWSER SCREEN



FIG. 17

